

What is claimed is:

1. An outlet airflow direction control device, comprising a fan and a frame;

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said frame having an inlet and an outlet, and being internally provided at said outlet with a hub seat; and a plurality of fluid control elements being provided between said frame and said hub seat to connect said hub seat to said frame; and

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said fan being supported on said hub seat of said frame;

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said fluid control elements being radially arranged at said outlet of said frame, and each of said fluid control elements being connected at an outer end, which forms a directional-guide section, to said frame, and at an inner end, which forms a connecting section, to said hub seat, and said directional-guide section having an area larger than that of said connecting section;

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whereby when said fan is rotated to cause an amount of fluid to flow into and out of said frame via said inlet and said outlet, respectively, said fluid control elements are adapted to control a flow direction of said fluid flown out of said outlet of said frame.

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2. The outlet airflow direction control device as claimed in claim 1, wherein said fluid control elements are directional-guide blades.

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3. The outlet airflow direction control device as claimed in claim 1, wherein said fluid control elements are ribs.

4. An outlet airflow direction control device, comprising a fan and a frame;

5 said frame having an inlet and an outlet, and being internally provided at said outlet with a hub seat; and a plurality of fluid control elements being provided between said frame and said hub seat to connect said hub seat to said frame; and

10 said fan being supported on said hub seat of said frame;

said fluid control elements being radially arranged at said outlet of said frame, and each of said fluid control elements being connected at an inner end, which forms a directional-guide section, to said hub seat, and at an outer end, which forms a connecting section, to said frame, and said directional-guide section having an area larger than that of said connecting section;

20 whereby when said fan is rotated to cause an amount of fluid to flow into and out of said frame via said inlet and said outlet, respectively, said fluid control elements are adapted to control a flow direction of said fluid flown out of said outlet of said frame.

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5. The outlet airflow direction control device as claimed in claim 4, wherein said fluid control elements are directional-guide blades.

30 6. The outlet airflow direction control device as claimed in claim 4, wherein said fluid control elements are ribs.

7. An outlet airflow direction control device, comprising a fan and a frame;

said frame having an inlet and an outlet, and being internally provided at said outlet with a hub seat; and a plurality of fluid control elements being provided between said frame and said hub seat to connect said hub seat to said frame; and

said fan being supported on said hub seat of said frame;

said fluid control elements being radially arranged at said outlet of said frame, and each of said fluid control elements being connected at inner and outer end, which form two directional-guide sections, to said hub seat and said frame, respectively, and having a middle portion, which forms a connecting section, to connect said two directional-guide sections to each other, and said directional-guide section having an area larger than that of said connecting section;

whereby when said fan is rotated to cause an amount of fluid to flow into and out of said frame via said inlet and said outlet, respectively, said fluid control elements are adapted to control a flow direction of said fluid flown out of said outlet of said frame.

8. The outlet airflow direction control device as claimed in claim 7, wherein said fluid control elements are directional-guide blades.

9. The outlet airflow direction control device as claimed in claim 7, wherein said fluid control elements are ribs.

10. An outlet airflow direction control device, comprising a fan and a frame;

said frame having an inlet and an outlet, and being internally provided at said outlet with a hub seat; and a plurality of fluid control elements being provided between said frame and said hub seat to connect said hub seat to said frame; and

said fan being supported on said hub seat of said frame;

said fluid control elements being radially arranged at said outlet of said frame, and each of said fluid control elements having an increasing width that gradually increases from an inner end toward an outer end of said fluid control element;

whereby when said fan is rotated to cause an amount of fluid to flow into and out of said frame via said inlet and said outlet, respectively, said fluid control elements are adapted to control a flow direction of said fluid flown out of said outlet of said frame.

11. The outlet airflow direction control device as claimed in claim 10, wherein said fluid control elements are directional-guide blades.

12. The outlet airflow direction control device as claimed in claim 10, wherein said fluid control elements are ribs.

13. An outlet airflow direction control device, comprising a fan and a frame;

said frame having an inlet and an outlet, and being internally

provided at said outlet with a hub seat; and a plurality of fluid control elements being provided between said frame and said hub seat to connect said hub seat to said frame; and

5 said fan being supported on said hub seat of said frame;

 said fluid control elements being radially arranged at said outlet of said frame, and each of said fluid control elements having a reducing width that gradually reduces from an inner
10 end toward an outer end of said fluid control element;

 whereby when said fan is rotated to cause an amount of fluid to flow into and out of said frame via said inlet and said outlet, respectively, said fluid control elements are adapted
15 to control a flow direction of said fluid flown out of said outlet of said frame.

14. The outlet airflow direction control device as claimed in claim
20 13, wherein said fluid control elements are directional-guide blades.

15. The outlet airflow direction control device as claimed in claim 13, wherein said fluid control elements are ribs.

25 16. An outlet airflow direction control device, comprising a fan 6
 and a frame;

 said frame having an inlet and an outlet, and being internally provided at said outlet with a hub seat; and a plurality of
30 fluid control elements being provided between said frame and said hub seat to connect said hub seat to said frame; and

said fan being supported on said hub seat of said frame;

said fluid control elements being radially arranged at said outlet of said frame, and each of said fluid control elements having a variable width that gradually reduces from an inner end toward a middle portion and then gradually increases from said middle portion toward an outer end of said fluid control element;

whereby when said fan is rotated to cause an amount of fluid to flow into and out of said frame via said inlet and said outlet, respectively, said fluid control elements are adapted to control a flow direction of said fluid flown out of said outlet of said frame.

17. The outlet airflow direction control device as claimed in claim 16, wherein said fluid control elements are directional-guide blades.

18. The outlet airflow direction control device as claimed in claim 16, wherein said fluid control elements are ribs.

19. An outlet airflow direction control device, comprising a frame connected to a fan module; said frame having an inlet and an outlet, and being internally provided at said outlet with a hub seat; and a plurality of fluid control elements being provided between said frame and said hub seat to connect said hub seat to said frame; said fluid control elements being radially arranged at said outlet of said frame, and each of said fluid control elements being connected at an outer end, which forms a directional-guide section, to said frame, and at an inner end, which forms a connecting section, to said

hub seat, and said directional-guide section having an area larger than that of said connecting section;

whereby when an amount of fluid is caused by said fan module to flow into and out of said frame via said inlet and said outlet, respectively, said fluid control elements are adapted to control a flow direction of said fluid flown out of said outlet of said frame.

20. The outlet airflow direction control device as claimed in claim 19, wherein fan module includes a fan and a fan frame.

21. The outlet airflow direction control device as claimed in claim 19, wherein said fluid control elements are directional-guide blades.

22. The outlet airflow direction control device as claimed in claim 19, wherein said fluid control elements are ribs.

23. An outlet airflow direction control device, comprising a frame connected to a fan module; said frame having an inlet and an outlet, and being internally provided at said outlet with a hub seat; and a plurality of fluid control elements being provided between said frame and said hub seat to connect said hub seat to said frame; said fluid control elements being radially arranged at said outlet of said frame, and each of said fluid control elements being connected at an inner end, which forms a directional-guide section, to said hub seat, and at an outer end, which forms a connecting section, to said frame, and said directional-guide section having an area larger than that of said connecting section;

whereby when an amount of fluid is caused by said fan module to flow into and out of said frame via said inlet and said outlet, respectively, said fluid control elements are adapted to control a flow direction of said fluid flown out of said outlet of said frame.

24. The outlet airflow direction control device as claimed in claim 23, wherein fan module includes a fan and a fan frame.

25. The outlet airflow direction control device as claimed in claim 23, wherein said fluid control elements are directional-guide blades.

26. The outlet airflow direction control device as claimed in claim 23, wherein said fluid control elements are ribs.

27. An outlet airflow direction control device, comprising a frame connected to a fan module; said frame having an inlet and an outlet, and being internally provided at said outlet with a hub seat; and a plurality of fluid control elements being provided between said frame and said hub seat to connect said hub seat to said frame; said fluid control elements being radially arranged at said outlet of said frame, and each of said fluid control elements being connected at inner and outer end, which form two directional-guide sections, to said hub seat and said frame, respectively, and having a middle portion, which forms a connecting section, to connect said two directional-guide sections to each other, and said directional-guide section having an area larger than that of said connecting section;

whereby when an amount of fluid is caused by said fan module

to flow into and out of said frame via said inlet and said outlet, respectively, said fluid control elements are adapted to control a flow direction of said fluid flown out of said outlet of said frame.

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28. The outlet airflow direction control device as claimed in claim 27, wherein fan module includes a fan and a fan frame.

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29. The outlet airflow direction control device as claimed in claim 27, wherein said fluid control elements are directional-guide blades.

30. The outlet airflow direction control device as claimed in claim 27, wherein said fluid control elements are ribs.

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31. An outlet airflow direction control device, comprising a frame connected to a fan module; said frame having an inlet and an outlet, and being internally provided at said outlet with a hub seat; and a plurality of fluid control elements being provided between said frame and said hub seat to connect said hub seat to said frame; said fluid control elements being radially arranged at said outlet of said frame, and each of said fluid control elements having an increasing width that gradually increases from an inner end toward an outer end of said fluid control element;

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whereby when said fan is rotated to cause an amount of fluid to flow into and out of said frame via said inlet and said outlet, respectively, said fluid control elements are adapted to control a flow direction of said fluid flown out of said outlet of said frame.

32. The outlet airflow direction control device as claimed in claim 31, wherein fan module includes a fan and a fan frame.

33. The outlet airflow direction control device as claimed in claim 31, wherein said fluid control elements are directional-guide blades.

34. The outlet airflow direction control device as claimed in claim 31, wherein said fluid control elements are ribs.

35. An outlet airflow direction control device, comprising a frame connected to a fan module; said frame having an inlet and an outlet, and being internally provided at said outlet with a hub seat; and a plurality of fluid control elements being provided between said frame and said hub seat to connect said hub seat to said frame; said fluid control elements being radially arranged at said outlet of said frame, and each of said fluid control elements having a reducing width that gradually reduces from an inner end toward an outer end of said fluid control element;

whereby when said fan is rotated to cause an amount of fluid to flow into and out of said frame via said inlet and said outlet, respectively, said fluid control elements are adapted to control a flow direction of said fluid flown out of said outlet of said frame.

36. The outlet airflow direction control device as claimed in claim 35, wherein fan module includes a fan and a fan frame.

37. The outlet airflow direction control device as claimed in claim 35, wherein said fluid control elements are directional-guide blades.

38. The outlet airflow direction control device as claimed in claim 35, wherein said fluid control elements are ribs.

5 39. An outlet airflow direction control device, comprising a frame
connected to a fan module; said frame having an inlet and an
outlet, and being internally provided at said outlet with a
hub seat; and a plurality of fluid control elements being
provided between said frame and said hub seat to connect said
10 hub seat to said frame; said fluid control elements being
radially arranged at said outlet of said frame, and each of
said fluid control elements having a variable width that
gradually reduces from an inner end toward a middle portion
and then gradually increases from said middle portion toward
15 an outer end of said fluid control element;

whereby when said fan is rotated to cause an amount of fluid
to flow into and out of said frame via said inlet and said
outlet, respectively, said fluid control elements are adapted
20 to control a flow direction of said fluid flown out of said
outlet of said frame.

40. The outlet airflow direction control device as claimed in claim 39, wherein fan module includes a fan and a fan frame.

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41. The outlet airflow direction control device as claimed in claim 39, wherein said fluid control elements are directional-guide blades.

30 42. The outlet airflow direction control device as claimed in claim 39, wherein said fluid control elements are ribs.